CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2012-13

Date: 08.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
NAME OF THE WORK	:	Providing Cement Concrete to Cross Roads to Chikkasandra near Govt. School in Shettyhalli Sub Division, Ward No.12, under 22.75% grant, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 05.04.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	164 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	489 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2012-13 : 08.04.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Providing Cement Concrete to Cross Roads to Chikkasandra near Govt. School in Shettyhalli Sub Division, Ward No.12, under 22.75% grant, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 05.04.2013

Date of Testing : 08.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	73	3.65	3.65	96.4	90-100
2.36	257	12.85	16.50	83.5	75-100
1.18	419	20.95	37.45	62.6	55-90
600 Micron	486	24.30	61.75	38.3	35-59
300 Micron	513	25.65	87.40	12.6	8-30
150 Micron	138	6.90	94.30	5.7	0-10

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Job No.: CTCE/BBMP/W.No.12/KRIDL/AGG/2012-13 : 08.04.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Providing Cement Concrete to Cross Roads to Chikkasandra near Govt. School in Shettyhalli Sub Division, Ward No.12, under 22.75% grant, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 05.04.2013

Date of Testing : 08.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25200**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	925	3.67	3.67	96.33	95-100
20	16348	64.87	68.54	31.46	30-70
10	4952	19.65	88.19	11.81	10-35
4.75	2515	9.98	98.17	1.83	0-5

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Job No.: CTCE/BBMP/W.No.12/KRIDL/STEEL/2012-13 10.04.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	:	Providing Cement Concrete to Cross Roads to Chikkasandra near Govt. School in Shettyhalli Sub Division, Ward No.12, under 22.75% grant, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 05.04.2013
Date of Test	:	10.04.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	549	13.15	O.K	O.K
2	16	1.58	518	552	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2012-13 25.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the work	: Providing Cement Concrete to Cross Roads to Chikkasandra near Govt. School in Shettyhalli Sub Division, Ward No.12, under 22.75% grant, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 05.04.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2013	25.05.2013	8.241	363.5	16.16
2	27.04.2013	25.05.2013	8.326	384.9	17.11
3	27.04.2013	25.05.2013	8.453	402.7	17.90

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ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2012-13 16.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the work	: Providing Cement Concrete to Cross Roads to Chikkasandra near Govt. School in Shettyhalli Sub Division, Ward No.12, under 22.75% grant, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 05.04.2013
Sample ID	: Culvert Deck Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.04.2013	16.05.2013	8.097	471.8	20.97
2	18.04.2013	16.05.2013	8.125	484.9	21.55
3	18.04.2013	16.05.2013	8.246	499.7	22.21

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